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Date \_\_\_\_\_

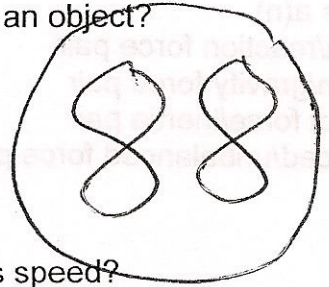
Per \_\_\_\_\_

## Chapter 2: Forces Test

Choose the letter which best fits the statement and write the letter on the line provided (4 pts each)

d 1. Which of the following is an example of zero net force applied to an object?

- a. a skier moving down a mountain with increasing speed
- b. a car turning left without changing speed
- c. a ball being hit into the outfield with a bat
- d. a rope pulled equally from opposite ends



d 2. A skater is moving at a constant speed. How can he increase his speed?

- a. drag the heel stop to increase friction
- b. lean to one side, causing the skates to turn
- c. reduce the force with which he pushes his feet against the ground
- d. increase the force with which he pushes his feet against the ground

A 3. If one force is balanced by another force, the

- a. effect is the same as no force at all
- b. effect is a positive net force
- c. size of the first force is balanced by the direction of the second force
- d. direction of the first force is balanced by the size of the second force

A 4. Newton's first law describes the tendency of objects to resist a change in motion. This resistance is also called

- a. inertia
- b. net force
- c. friction
- d. gravity

C 5. One way to decrease acceleration is to

- a. decrease force and mass equally
- b. increase force more than mass
- c. increase mass
- d. decrease mass

b 6. John **pulls** a box with a force of 4 N, and Jason **pulls** the box with a force of 3N. Ignore friction. Which of the following statements is true?

- a. The box moves toward Jason.
- b. The box moves toward John
- c. The box does not move.
- d. There is not enough information to determine if the box moves or not.